

IN THE CLAIMS

A listing of all claims and their current status in accordance with 37 C.F.R. § 1.121(c) is provided below.

1. (previously presented) An oximeter sensor comprising:
a light emitter for directing light at a patient;
a light detector mounted to receive light from said patient; and
a memory storing a first set of coefficients corresponding to a wavelength of said light emitter for use in a first formula for determining oxygen saturation, and a second set of coefficients corresponding to said wavelength of said light emitter for use in a second, different formula for determining oxygen saturation.

2. (original) The oximeter sensor of claim 1 wherein said coefficients are dependent on a mean wavelength of said light emitter.

3. (original) The oximeter sensor of claim 1 wherein said memory further stores a value indicating a signal breakpoint between said first and second formulas.

4. (original) The oximeter sensor of claim 1 wherein at least one of said different formulas is a nonlinear formula.

5. (original) The oximeter sensor of claim 1 wherein said different formulas are linear formulas.

6. (currently amended) An oximeter sensor system comprising:
a light emitter for directing light at a patient;
a light detector mounted to receive light from said patient; and
a memory, mounted in a sensor or between said sensor and an oximeter monitor,
said memory storing an indication of a breakpoint, first and second sets of coefficients
corresponding to a same wavelength of the light emitter, and first and second formulas for
determining oxygen saturation, said oximeter monitor selecting between the first and second sets
of coefficients or and the first and second formulas for determining oxygen saturation based at
least in part on said breakpoint.

7. (original) The oximeter sensor of claim 6 wherein said coefficients are dependent on a mean wavelength of said light emitter.

8. (canceled)

9. (previously presented) The oximeter sensor of claim 6 wherein at least one of said formulas is a nonlinear formula.

10. (previously presented) The oximeter sensor of claim 6 wherein said formulas are linear formulas.

11. (currently amended) An oximeter sensor comprising:
a light emitter for directing light at a patient;
a light detector mounted to receive light from said patient; and
a memory storing a plurality of alternate values of oxygen saturation or ratio-of-ratio values used in at least two different algorithms to determine oxygen saturation, said plurality of values corresponding to the same mean wavelength of said same light emitter.

12. (previously presented) The sensor of claim 11 wherein said values are correspond to different coefficients or formulas used for different ranges of oxygen saturation.